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tory of the Forest,' 'Methods of Forest Crop Production, Silviculture,' 'Methods of Business Conduct, Forest Economy,' 'Principles and Methods of Forest Policy,' 'Forest Policies of Foreign Nations,' 'Forest Conditions of the United States,' 'The Forestry Movement in the United States.' There is also an appendix of valuable notes and tables. From the titles of the chapters, as well as that of the book, it is seen that it deals with the forestry problem from the standpoint of the political economist, and is in fact a contribution to one phase of this science, as well as to technical forestry. A full and satisfactory index closes this timely book, which we are sure must find its way into general use by all who are interested in the subject of forestry in any of its more general aspects.

CHARLES E. BESSEY.

UNIVERSITY OF NEBRASKA.

SCIENTIFIC NOTES AND NEWS.

THE Nobel prizes for 1902 were formally awarded on December 10. As we have already announced, the prize in chemistry was awarded to Professor Emil Fischer, of Berlin; the prize in medicine to Professor Ronald Ross, of Liverpool University, and the prize in physics was awarded divided between Professor H. A. Lorentz, of Leiden, and Professor P. Zeeman, of Amsterdam. The value of each of the prizes is about \$40,000.

THE American Philosophical Society elected officers on January 2 as follows: *President*, Edgar F. Smith; *Vice-Presidents*, George F. Barker, Samuel P. Langley, William B. Scott; *Secretaries*, I. Minis Hays, Edwin G. Conklin, Arthur W. Goodspeed, Morris Jastrow, Jr.; *Treasurer*, Henry La Barre Jayne; *Curators*, Charles L. Doolittle, William P. Wilson, Albert H. Smyth; *Councilors*, George R. Morehouse, Patterson Du Bois, Ira Remsen, Isaac J. Wistar.

At the Washington meeting of the Astronomical and Astrophysical Society of America the following officers were elected to serve for the ensuing year:

President—Simon Newcomb.

First Vice-President—George E. Hale.

Second Vice-President—William W. Campbell.

Secretary—George C. Comstock.

Treasurer—C. L. Doolittle.

Councilors—E. C. Pickering, R. S. Woodward, Ormond Stone, W. S. Eichelberger.

The time and place of the next meeting were left for subsequent decision by the council.

THE first appointments to the newly established honorary position of associate of the Harvard University Museum are as follows: Andrew Grey Weeks, Jr., of Boston, in zoology; Herbert Haviland Field, Ph.D., of Zurich, in zoology, and Robert LeMoyné Barrett, A.B., of Chicago, in geography. Mr. Weeks is a specialist in Lepidoptera; Dr. Field is the editor of the well-known *Concilium Bibliographicum*; Mr. Barrett is engaged in exploration in Central Asia.

SURGEON GENERAL WYMAN, of the Marine Hospital Service, has returned from California, where he went to investigate the alleged existence of bubonic plague in San Francisco.

THREE members of the scientific departments of Syracuse University have leave of absence for the purpose of study abroad—Dr. Charles W. Hargitt, professor of biology, sails for Naples in January, to be absent one year; Dr. T. C. Hopkins, professor of geology, will study volcanoes and glaciers in Italy, France and Switzerland, and Dr. Harold Pender proposes to repeat his experiments on electricity and magnetism at the University of Paris.

THE state commissioners of education of New South Wales, headed by Dr. G. H. Knibbs, president of the University of Sydney, have come to the United States to study our educational system.

MAJOR RONALD ROSS was given a reception by the Lord Mayor of Liverpool on December 22 in recognition of the award to him of the Nobel prize.

THE curators in the Zoological Museum of the University of Berlin, Dr. Wilhelm Weltner, Dr. Gustav Tornier and Dr. Paul Matschie have been made professors.

WE learn from *Nature* that the First Lord of the Treasury has appointed a committee to inquire and report as to the administration by

the meteorological council of the existing Parliamentary grant, and as to whether any changes in its apportionment are desirable in the interests of meteorological science, and to make any further recommendations which may occur to them, with a view to increasing the utility of that grant. The committee will consist of the Right Hon. Sir Herbert E. Maxwell Bart., M.P. (chairman), Mr. J. Dewar M.P., Sir W. de W. Abney, K.C.B., F.R.S., Sir F. Hopwood, K.C.B., Board of Trade, Sir T. H. Elliot, K.C.B., Board of Agriculture, Dr. R. T. Glazebrook, F.R.S., Mr. T. L. Heath, Treasury, and Dr. J. Larmor, F.R.S. Mr. G. L. Barstow, of the Treasury, will act as secretary to the committee.

THE Medical Society of the District of Columbia held a memorial meeting on December 31, in honor of the late Dr. Walter Reed, Major Surgeon, U.S.A. Addresses were delivered by Dr. S. S. Adams, president of the society, Medical Director Marmion, U.S.N., Surgeon J. R. Kean, U.S.A., Professor A. F. A. King, Dr. C. W. Stiles, General Leonard Wood, U.S.A., and Dr. W. H. Welch, of Johns Hopkins University.

WE recorded last week the death of Dr. Charles C. Bell, professor of chemistry in the Medical School of the University of Minnesota. Dr. Bell was born at Somerville, Mass., in 1854. He was graduated at Harvard in the class of '76, and spent several years in the study of chemistry abroad. On his return he was connected with the Johns Hopkins University and the Pennsylvania State College. He became a professor in the University of Minnesota thirteen years ago.

THE deaths are announced of Dr. John Young, lately professor of natural history at Glasgow University; of Mr. Henry Stopes, known for his researches in prehistoric archeology; of Dr. Franz Graeff, professor of mineralogy at Freiburg i. B.; of Dr. Johan Lemberg, professor of mineralogy and geology in the University at Dorpat, of Dr. T. Zaaier, professor of anatomy and embryology in the University of Leiden; and of Dr. Antonio d'Achiardi, professor of mineralogy and geology at the University of Pisa.

A COMPETITIVE examination of the New York Civil Service Commission will be held on January 24 for the position of structural engineer in the State Architect's Office at a salary of \$2,000. The duties include calculation of strength and stability of structures, including floors, girders, roofs, columns, walls, piers and foundations, design of roof trusses, inspection of foundation soils, design of water supply systems, and require a knowledge of retaining walls, calculation of quantities, modern steel and concrete construction and road building. Subjects of examination and relative weights: Theoretical and practical questions, 6; experience and education, 2.

MR. ANDREW CARNEGIE has offered to give the city of Philadelphia \$1,500,000 for the erection of thirty branch libraries, on the condition that the city provide the sites and \$5,000 a year for maintenance for each branch. Mr. Carnegie has also offered to give \$100,000 to Camden for a library building.

MR. HENRY PHIPPS, of New York City, has given \$300,000 for the establishment in Philadelphia of 'The Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis.'

DR. WILLIAM B. GRAVES, of East Orange, N. J., has presented a well-equipped bacteriological and pathological laboratory to the Orange Memorial Hospital, to be known as the Graves Laboratory.

A PRESS dispatch from Cambridge states that notice has been received at the Harvard Astronomical Observatory of a gift of \$2,500 from the Carnegie Institution. The award is for the year 1903 and the money is to be used toward paying the salaries of experts who are to study the large collection of astronomical photographs which have been made by the observatory.

MR. ANDREW CARNEGIE has signaled his acceptance of the vice-presidency of the Iron and Steel Institute of Great Britain by establishing seven student scholarships of an annual value of \$500 each for the furtherance of metallurgical research.

THE London *Times* states that the Swedish Antarctic exploration ship *Antarctic* left Tierra del Fuego at the beginning of November on its second summer expedition. It was expected that the expedition, after some cartographic work and natural history research in the northern and western portions of the Dirck Gerritz Archipelago, would arrive about December 10 at the winter quarters in Snow Hill Land, where Dr. Nordenskjöld would resume the leadership of the entire expedition. The *Antarctic* will probably return to Port Stanley (Falkland Islands) at the end of February or the beginning of March.

UNIVERSITY AND EDUCATIONAL NEWS.

DR. D. K. PEARSONS, of Chicago, has made a gift of \$50,000 to the endowment fund of Pomona College at Claremont, Cal.

GENERAL O. O. HOWARD, president of the board of directors of the Lincoln Memorial University at Cumberland Gap, Tenn., announces that the \$200,000 which they desired for the endowment of the school has been raised.

DR. GUSTAV A. ANDREEN, president of Augustana College, at Rock Island, Ill., has sailed for Sweden, where he goes to accept a \$29,000 gift from Swedish educators and business men to Augustana College.

A FELLOWSHIP of the value of four hundred and fifty dollars has been established by the trustees of Smith College for the encouragement of advanced work in philosophy and psychology. It is open to women graduates of not less than one year's standing of Smith and of other colleges, and is awarded annually, subject to renewal at discretion, to the candidate judged best fitted to profit by it. The holder of the fellowship is required to render a certain amount of assistance (not instruction) in the philosophical department, but is free, and is expected, to devote most of her time to some specified line of work under the direction of the instructors and to present a thesis, embodying the results of her studies, at the end of the year. The work so done may be taken to qualify her for an advanced academic degree. Application for this fel-

lowship should be sent, with testimonials and other vouchers, to Mr. H. N. Gardiner, Smith College, Northampton, Mass., by May 1.

AT the Ohio State University a veterinary building, costing \$35,000 and an addition to the chemical building costing \$22,000 are now being constructed. Besides these, a building costing \$80,000 for the department of civil engineering and drawing will be commenced as soon as the weather will permit, and plans have been ordered for a physics building costing from \$80,000 to \$90,000. The funds for these structures have all been provided. Each of the buildings will be planned with reference to future additions. The enrolment of the institution during the past term was 1607, a gain of nearly 200 over the corresponding time one year ago.

A NEW four-story building, 186 x 70 feet, for the departments of mechanical engineering, mining engineering and geology at Lehigh University is in process of construction.

THE trustees of Columbia University have voted to designate the physical laboratories for research the Phoenix Physical Laboratories, in memory of Stephen Whitney Phoenix, of the class of '59, who left a large bequest to Columbia.

DR. J. J. THOMSON, F.R.S., for the past eighteen years Cavendish professor of experimental physics at Cambridge University, has been offered by the trustees of Columbia University the chair of physics, vacant by the death of Ogden N. Rood. Professor Thomson was born at Manchester in 1856, and attended Owens College and Trinity College, Cambridge. At Cambridge he was second wrangler and second Smith's prizeman in 1880 and was elected fellow of Trinity College in 1881. In 1884 he succeeded Lord Rayleigh as professor of experimental physics.

DR. CHARLES L. POOR, formerly associate professor of astronomy at the Johns Hopkins University, has been appointed lecturer in astronomy in Columbia University.

THE general board of studies of Cambridge University has appointed Mr. F. G. Hopkins, M.A., of Emmanuel College, to the office of reader in chemical physiology.